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The taxonomy of the amphipod genus *Stilipes* (Crustacea: Amphipoda: Stilipedidae), with description of one new species

Jørgen Berge*

Department of Biology, UNIS, Longyearbyen, Norway

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Abstract

A new species of marine amphipod, *Stilipes macquariensis* sp. n., is described from west of Macquarie Island. In the accompanying Electronic Supplement, two of the previously known species in the genus, *S. distinctus* and *S. lacteus*, are partly redescribed, and a key to *Stilipes* species is presented. The name of the species originally published as *Stilipes distincta* Holmes, 1908 is changed to *S. distinctus* as mandated by the Code of zoological nomenclature (ICZN 1999: Article 34.2.), to match the gender of the genus name. Detailed studies of various appendages have revealed that, contrary to what was believed until now, members of *Stilipes* do possess both a small accessory flagellum on the first antenna and a row of raker setae on the mandible (Fig. 1). Relations of the genus to the three families Astyridae, Stilipedidae and Iphimediidae (all sensu Coleman & Barnard 1991) are discussed.

Diagnosis of *Stilipes macquariensis* sp. n. (Fig. 1): the species is easily separated from the three known congeners by the short and distally truncate telson, and the broad and rounded third epimeral plate. *S. distinctus* and *S. sanguineus* both possess a conspicuously pointed and acute posterodistal corner on the third epimeral plate, whereas it is weakly produced and more rounded in *S. lacteus*. Furthermore, the lacinia mobilis of *S. macquariensis* sp. n. is only partly toothed, whereas the entire distal margin of the lacinia mobilis is strongly toothed in all congeners.

Types and locality: Holotype (South Australian Museum, Adelaide; reg. nr C6074) female 22 mm: W Macquarie Isl., 54°50'5''–54°41'9''S, 158°40'99''–158°43'E, 956–9 m, FRV Southern Surveyor stn. 5501/52, 22 January 1999, leg. K. L. Gowlett-Holmes.

Key words: Amphipoda, *Stilipes macquariensis* sp. n., taxonomy

Full article at: <http://www.senckenberg.de/odes/03-16.htm>

References

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 ICZN = International Commission on Zoological Nomenclature (1999): *International Code of Zoological Nomenclature*. Fourth Edition. xxix+306 pp., Int. Trust on Zool. Nomencl., London.

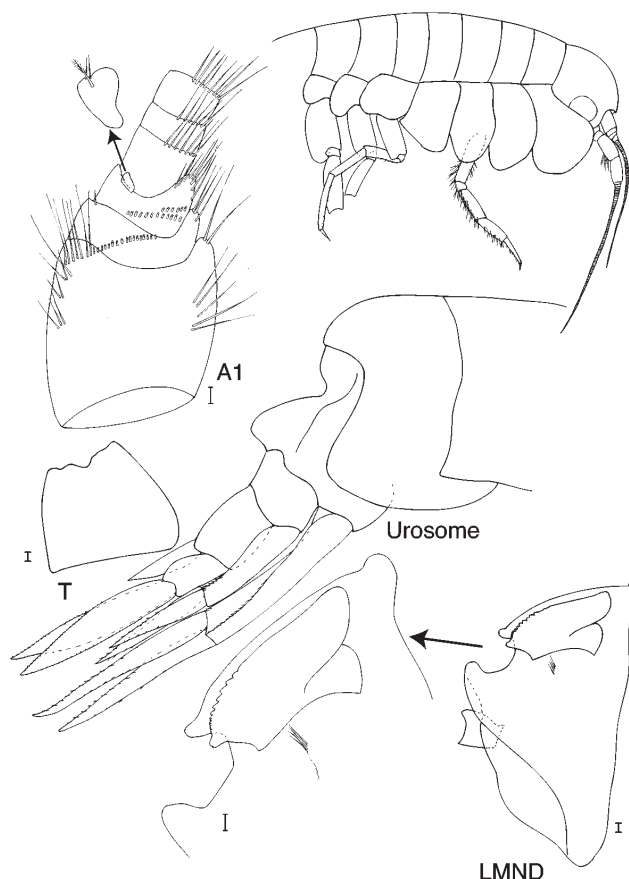


Fig. 1. *Stilipes macquariensis* sp. n., holotype female, 22 mm. A1 = antenna 1, LMND = left mandible, T = telson. Scale bars = 0.1 mm.

* **Corresponding author:** Jørgen Berge, Department of Biology, UNIS, 9171 Longyearbyen, Norway; e-mail: jorgen.berge@unis.no